Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 29-10-18

Lab ID	:	**CP-2019-01-25-92**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	26-10-18
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-10-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	101	198	8019	21.320	2658.6	2669.6	Not less than 1800Kg/m^3
2	400	102	203	8282	22.624	2731.6		
3	398	101	203	8160	21.368	2618.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-01-25-92** **Date: 29-10-18**

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	102	199	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
2	403	101	200	
3	402	102	201	
4	402	102	202	
5	404	100	200	
6	403	101	200	
7	400	102	200	
8	400	102	200	
9	401	100	200	
10	403	103	199	
11	399	102	200	
12	403	103	200	
13	402	101	201	
14	402	100	200	
15	403	103	200	
16	400	100	202	
17	401	101	200	
18	403	103	202	
19	399	102	199	
20	403	101	199	
Average of 20	**402**	**102**	**200**	

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Lab ID : **CP-2019-01-25-92** **Date: 29-10-18**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	102	40770	165.8	4.1	4.0
2	403	101	40666	159.6	3.9	
3	402	102	40988	155.8	3.8	
4	402	102	40963	160.8	3.9	
5	404	100	40394	173.2	4.3	
6	403	101	40675	170.8	4.2	
7	400	102	40816	175.3	4.3	
8	400	102	40808	150.6	3.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-01-25-92** **Date: 07-12-18**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	04-12-18
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-12-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	151	199	12110	25.664	2119.3	2140.4	Not less than 1800Kg/m^3
2	399	152	201	12190	26.642	2185.5		
3	399	151	198	11929	25.248	2116.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.13	5.25	5.23	Shall not be more than 10% by mass
2	33.57	31.68	5.63		
3	33.44	31.83	4.82		

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Lab ID : **CP-2019-01-25-92** **Date: 07-12-18**

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	202	
2	400	150	199	
3	401	153	199	
4	401	154	203	
5	403	150	201	
6	399	151	200	
7	399	152	200	
8	401	151	199	
9	401	150	199	
10	402	152	200	
11	399	153	200	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	400	151	199	
13	400	151	199	
14	400	151	202	
15	400	150	200	
16	402	153	202	
17	400	150	199	
18	404	150	201	
19	403	152	202	
20	401	152	199	
Average of 20	**401**	**151**	**200**	

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Lab ID : **CP-2019-01-25-92**

Date: 07-12-18

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60517	329.5	5.4	5.8
2	400	150	60008	340.8	5.7	
3	401	153	61324	382.5	6.2	
4	401	154	61701	374.6	6.1	
5	403	150	60407	368.4	6.1	
6	399	151	60296	336.9	5.6	
7	399	152	60699	355.6	5.9	
8	401	151	60483	347.2	5.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-01-25-92** **Date: 26-10-18**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	23-10-18
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-10-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	198	201	15840	33.302	2102.5	2024.8	Not less than 1800Kg/m^3
2	405	198	202	16198	32.082	1980.6		
3	400	201	202	16241	32.341	1991.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-01-25-92**

Date: 26-10-18

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	202	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	203	
3	399	201	200	
4	400	199	200	
5	401	201	202	
6	399	201	203	
7	399	202	199	
8	403	199	201	
9	403	201	203	
10	401	202	203	
11	400	203	202	
12	400	201	200	
13	403	201	199	
14	399	199	199	
15	400	203	202	
16	403	201	203	
17	403	202	199	
18	404	200	199	
19	403	201	201	
20	403	201	200	
Average of 20	**401**	**201**	**201**	

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Lab ID : **CP-2019-01-25-92** **Date: 26-10-18**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	202	81343	440.8	5.4	5.6
2	402	201	80908	453.6	5.6	
3	399	201	80280	438.6	5.5	
4	400	199	79669	439.7	5.5	
5	401	201	80725	422.5	5.2	
6	399	201	80103	468.8	5.9	
7	399	202	80713	470.9	5.8	
8	403	199	80477	469.2	5.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-25-92** **Date: 10/11/2018**

Project Name : Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE/(Project)/Ynk/WO/119/2017-18

Date of Receipt : 05-11-18

Customer ID : Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M25	03/11/2018	10/11/2018	150.77 X 150.34 X 151.31	22667	**8.398**	528.0	23.3	22.6
2	Staircase Concrete	M25	03/11/2018	10/11/2018	151.11 X 149.10 X 149.83	22532	**8.861**	497.7	22.1	
3	Staircase Concrete	M25	03/11/2018	10/11/2018	151.24 X 151.79 X 149.13	22957	**8.224**	513.0	22.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-25-92** **Date: 01/12/2018**

Project Name : Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE/(Project)/Ynk/WO/119/2017-18

Date of Receipt : 05-11-18

Customer ID : Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M25	03/11/2018	01/12/2018	151.67 X 149.48 X 151.82	22670	**8.539**	634.5	28.0	27.4
2	Staircase Concrete	M25	03/11/2018	01/12/2018	150.12 X 151.65 X 151.14	22767	**8.185**	594.9	26.1	
3	Staircase Concrete	M25	03/11/2018	01/12/2018	151.61 X 150.19 X 151.15	22770	**8.369**	642.4	28.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2018

Lab ID	:	**CP-2019-01-25-92**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	21-12-18
Customer ID	:	Staircase Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M25	19/12/2018	26/12/2018	149.07 X 149.09 X 151.16	22225	**8.398**	521.6	23.5	22.8
2	Staircase Concrete	M25	19/12/2018	26/12/2018	149.25 X 150.31 X 150.49	22434	**8.861**	512.2	22.8	
3	Staircase Concrete	M25	19/12/2018	26/12/2018	149.06 X 151.54 X 149.92	22589	**8.224**	500.4	22.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-25-92** **Date: 16/01/2019**

Project Name : Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE/(Project)/Ynk/WO/119/2017-18

Date of Receipt : 21-12-18

Customer ID : Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M25	19/12/2018	16/01/2019	150.13 X 149.60 X 149.11	22460	**8.539**	623.2	27.7	27.6
2	Staircase Concrete	M25	19/12/2018	16/01/2019	151.26 X 150.99 X 151.21	22839	**8.185**	600.4	26.3	
3	Staircase Concrete	M25	19/12/2018	16/01/2019	149.18 X 151.30 X 151.26	22571	**8.369**	649.3	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-25-92** **Date: 24/12/2018**

Project Name : Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE/(Project)/Ynk/WO/119/2017-18

Date of Receipt : 19-12-18

Customer ID : Second Floor Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Second Floor Chejja Concrete	M20	17/12/2018	24/12/2018	151.68 X 149.38 X 149.31	22658	**8.929**	412.0	18.2	18.4
2	Second Floor Chejja Concrete	M20	17/12/2018	24/12/2018	151.42 X 149.75 X 149.34	22676	**8.454**	427.8	18.9	
3	Second Floor Chejja Concrete	M20	17/12/2018	24/12/2018	149.71 X 149.30 X 150.16	22352	**8.689**	405.7	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-25-92** **Date: 14/01/2019**

Project Name : Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE/(Project)/Ynk/WO/119/2017-18

Date of Receipt : 19-12-18

Customer ID : Second Floor Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Second Floor Chejja Concrete	M20	17/12/2018	14/01/2019	150.07 X 150.13 X 150.52	22530	**8.973**	527.7	23.4	23.1
2	Second Floor Chejja Concrete	M20	17/12/2018	14/01/2019	150.21 X 150.27 X 151.29	22571	**8.108**	509.4	22.6	
3	Second Floor Chejja Concrete	M20	17/12/2018	14/01/2019	149.33 X 151.92 X 150.37	22686	**8.574**	526.9	23.2	

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